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Catalogue of the papers and correspondence of

Sir Alan Hugh Cook FRS

(1922-2004)

by Peter Harper and Timothy E. Powell
NCUACS catalogue no. 169/12/08

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GENERAL INTRODUCTION

PROVENANCE

The material was received for cataloguing from Lady (Isabell) Cook, widow, via the Archives of Selwyn College, Cambridge in September 2007.

OUTLINE OF THE CAREER OF SIR ALAN HUGH COOK

Alan Hugh Cook was born in Felsted, Essex on 2 December 1922 and educated at Westcliff High School for Boys and Corpus Christi College Cambridge where he followed the Natural Science Tripos with geology as an additional experimental subject. On graduating in 1943 he was drafted to do war work becoming a temporary experimental officer in the Army Signals Establishment, Witley, Surrey where he was involved in radar research in the Test and Measurement Section. At the end of the war he returned to Cambridge for Ph.D. research (awarded 1950) on measurements of gravity in the British Isles supervised by E.C. Bullard and B.C. Browne in the Department of Geodesy and Geophysics. He continued in the Department as a research assistant working on gravity measurements and geodetic applications, 1949-1952.

In 1952 Cook went to work in the metrology department at the National Physical Laboratory (NPL), Teddington, in south-west London, where he researched on precise measurements and standards and became superintendant of the quantum metrology department in 1966. Principal investigations were on the density of mercury, absolute determination of acceleration due to gravity, precise wavelength measurements and satellite theory applied to geodesy. He used digital computers to analyse experimental results, including those on absolute gravity measurements. In 1969 Cook became the first professor of geophysics at Edinburgh University. At Edinburgh he extended his use of computers to carry out some massive calculations on the rocking motion of the moon, which depends on the gravity field of the moon and the earth. After only three years Cook was appointed to the Jacksonian Chair of Natural Philosophy held in the Cambridge physics department, a position he held until 1990 and to a Fellowship at King's College. In 1979 he became head of the Cavendish Laboratory in Cambridge (to 1984) and in 1983 Master of Selwyn College Cambridge, retiring in 1993. He also became responsible for Cambridge University's computer facilities and chairman of the board of directors of Cambridge University Press.

Cook took an active part in scientific affairs nationally and internationally. In Britain he served the Royal Astronomical Society (President 1977-1979), Institute of Physics, Royal Society and Research Councils in many capacities. Internationally he was active in both the International Astronomical Union and the International Union of Geodesy and Geophysics, and enjoyed a long association with International Centre for Theoretical Physics, Trieste as consultant for geophysics programmes and as course organiser and lecturer. He spent periods as Visiting Fellow or Professor at a number of leading US institutions: Joint Institute for Laboratory Astrophysics, Boulder, Colorado, 1965-1966, University of California, 1981-1982, and Center of Theological Inquiry, Princeton, 1993. Cook was devoted to the history of science. In particular he spent twenty years researching Edmond Halley, publishing a well-received biography in 1998: *Edmond Halley: Charting the Heavens and the Seas* (Oxford: the Clarendon Press). He was Editor of *Notes and Records of the Royal Society*, 1996-2003.

Cook was elected FRS in 1969 and knighted in 1988. He died on 23 July 2004.

For a full account of Cook's life and work see the memoir by Terry Quinn, *Biographical Memoirs of Fellows of the Royal Society*, vol. 51, 87-100 (2005).

DESCRIPTION OF THE COLLECTION

The archive covers the period 1931-2005.

Section A, Biographical, includes curricula vitae, lists of publications and the personal records Cook prepared for the Royal Society of Edinburgh, documentation of career, honours and awards including early education, election to the Fellowship of the Royal Society and knighthood, and photographs.

Section B, Research and teaching, presents a sequence of folders of notes and drafts and notebooks, c.1973-2004. Folder and notebook titles include 'Libration', 'Theory of Lunar Libration', 'Theory of the Internal Gravity Field', 'Melting' and 'Melting of Metallic Hydrogen'. Some of this material relates to periods Cook spent as Visiting Professor at the University of California, 1981-1982 and Visiting Fellow at Princeton, New Jersey, 1993. It is possible that other material relates to courses prepared by him for the International Centre of Theoretical Physics, Trieste, Italy.

Section C, Publications, comprises nine bound volumes of Cook's offprints arranged by such topics as earth sciences, metrology and 'history and miscellaneous', and covering the period 1948-2001; drafts of publications or intended publications, 1982-2001; correspondence about publications, 1967-2002, and reviews of a number of Cook's publications, 1994-1995. Drafts include the contents of containers titled 'Ideas of Theoretical Physics' and 'Molecules'. Cook's principal correspondent is

Cambridge University Press. The sequence of correspondence includes contracts and memoranda of agreement in respect of Cook's own publications.

Section D, Lectures, visits and conferences, covers the period 1973-2005. It documents a visit to China in 1984 (including a little material relating to an earlier visit in 1973) and a small number of lectures on scientific and history of science topics including 'The Achievements of Sir John Cockcroft', at Cockcroft's birthplace Todmorden in 1982; 'Les Bases empiriques de la Théorie scientifique', Humphrey Davy Lecture, Académie des Sciences, Paris in 1994; and the Royal Society Lunchtime Lecture on Benjamin Franklin at the National Portrait Gallery London in 2001.

Section E, History of Science, documents Cook's research and publications and his editorial role for *Notes and Records of the Royal Society*. The great bulk of the material relates to his research on Edmond Halley which resulted in the biography published in 1998: *Edmond Halley: Charting the Heavens and the Seas* (Oxford: the Clarendon Press) and a number of lectures and articles. There is also interesting material for his Royal Society memoirs of Louis Essen (1908-1997) and, especially, R.V. Jones (1911-1997). His association with *Notes and Records* is represented by editorial correspondence and offprints of his own papers published in it, 1992-2005.

There is also an index of correspondents.

Peter Harper
Bath
December 2008

SECTION A	BIOGRAPHICAL, A.1-A.62	1931-2005
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A.1-A.2	OBITUARIES AND MEMOIR
A.3-A.7	BIOGRAPHICAL AND AUTOBIOGRAPHICAL
A.8-A.52	CAREER, HONOURS AND AWARDS
A.53-A.58	PUBLIC AND SOCIAL OCCASIONS
A.59-A.62	PHOTOGRAPHS

A.1-A.2	OBITUARIES AND MEMOIR	2004-2005
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A.1	Obituaries	2004
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The Times, 6 August 2004.

Independent, 31 July 2004. By A.B. Pippard.

A.2	Royal Society memoir of Cook: T. Quinn, 'Sir Alan Hugh Cook'. <i>Biogr. Mem. Fell. R. Soc.</i> 51 (2005), 87-100	2005
	Offprint.	

A.3-A.7	BIOGRAPHICAL AND AUTOBIOGRAPHICAL
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A.3-A.5	Curricula vitae and lists of publications
	3 folders

A.6	'Personal Records of Fellows of the Royal Society of Edinburgh'
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A.7	Biographical notes on Cook's parents
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Biographical, A.1-A.62

A.8-A.52	Career, honours and awards	1931-2003
A.8-A.15	School Education 1929-1940	1931-2003
A.8	Felstead Council School 1929-1931 Letter from headmaster, 18 December 1931 and school report, n.d. ?1931	1931
A.9	West Leigh School 1931-1933 Scholar's Reports for 1932 and 1933, photocopy of letter from headmaster to Cook's parents, 8 May 1933, papers re 90th birthday celebrations of school, 2003.	1932-1933, 2003
A.10-A.15	Westcliffe High School for Boys 1933-1940	1933-1969
A.10	Terminal Reports In book form.	1933-1940
A.11	3 certificates awarded to Cook for excellent work in the years 1933-1934, 1934-1935 and 1935-1936	1934-1936
A.12	Programmes for Distribution of Prizes and Certificates 1935, 1937-1939 and press-cutting, 1939	
A.13	School certificates 4 certificates. In roll.	1937-1940
A.14	Competition essay by Cook on 'Our Milk Supply'	n.d.
A.15	Letter from Head Master to Cook as the school's first Cambridge PhD, 3 May 1950 and 'The Old Westcliffian',	1950, 1969

Biographical, A.1-A.62

May 1969.

A.16	Miscellaneous diplomas and certificates awarded to Cook for literature and first aid	1937-1940
A.17-A.20	University of Cambridge Corpus Christi College 1940-1943	1939-1946
A.17	Correspondence, newspaper cuttings, etc <i>re</i> Cook's success in gaining an entrance scholarship to Corpus Christi College, Cambridge	1939
A.18-A.19	Correspondence and papers <i>re</i> state scholarship, etc. 2 folders.	1940-1941
A.20	BA 1943 2 certificates dated 28 June 1943 and 4 June 1946 and extracts from <i>Cambridge University Reporter</i> , 1943	1943, 1946
A.21	Admiralty Signals Establishment 1943-1946 Letter from Ministry of Labour and National Service <i>re</i> wartime employment at the Admiralty and copy of memorandum and accompanying letter <i>re</i> appreciation of work carried out in preparation for invasion of Normandy..	1943-1944
A.22	Home Guard Certificate of proficiency, 1944 and certificate of service, 1941-1944.	1944
A.23	University of Cambridge Department of Geodesy and Geophysics 1946-1951 MA 1947. PhD 1950.	1947, 1950

Biographical, A.1-A.62

A.24-A.25	National Physical Laboratory 1952-1969	[?1965], 1969, 2000
A.24	Press-cutting, [?1965], March and June 1969 issues of <i>Quanta</i> , newsletter of Division of Quantum Metrology, letter, 2 September 1969 from ?Cook's successor as Superintendant of the Division and letter, 14 November 2000, <i>re</i> NPL centenary conference	[?1965], 1969, 2000
A.25	Autograph book signed by colleagues and presented to Cook on his leaving the NPL for Edinburgh, August 1969	1969
A.26	Institute of Physics Charles Vernon Boys Prize for 1967 Includes letter from the President of the Institute informing Cook of the award of the Prize.	1966-1967
A.27	University of Cambridge DSc. Certificate etc.	1967
A.28-A.29	Royal Society Election to the Fellowship 1969	1969-1997
A.28	Correspondence and papers <i>re</i> election	1969
A.29	Correspondence <i>re</i> Committee service etc.	1972-1997
A.30	Chair of Geophysics, University of Edinburgh, 1969-1972 Includes letters of congratulation on appointment, 1968, and Cook's account of 'The start of Geophysics in Edinburgh', undated but written while Cook was Head of the Department of Physics, Cavendish Laboratory, Cambridge, 1979-1984.	1968, n.d.
A.31	Royal Society of Edinburgh Election to the Fellowship, 1970 Includes letters informing Cook of his election.	

Biographical, A.1-A.62

A.32	Jacksonian Professor of Natural Philosophy, University of Cambridge, 1972-1990 Letters of congratulation, newspaper cutting	1971-1972
A.33	Accademia Nazionale dei Lincei Election as Foreign Member 1973 Includes letter informing Cook of his election.	1973
A.34	Explorers Club Membership 1980 Certificate of membership.	1980
A.35-A.37	Selwyn College, Cambridge Master, 1983-1993 Letters of congratulation etc. 1983, letter of thanks for service, 1993. 3 folders.	1983, 1993
A.38-A.48	Knighthood 1988 Letters of congratulation etc. 11 folders. At A.38 is a list of congratulations. Unindexed.	1987-1988
A.49	International Association of Geodesy Election as Fellow 1991 Certificate.	1991
A.50	Institute of Physics Charles Chree Medal and Prize for 1993 Announcement of award in <i>The Independent</i> and <i>Physics World</i> .	1992

Biographical, A.1-A.62

A.51	Retirement as Chairman of the Cambridge University Press Syndicate 1993 Includes copy of speech by A.K. Wilson, Chief Executive of the Press, at a dinner in honour of Sir Alan and Lady Cook, Corpus Christi College, Cambridge, 25 January 1994.	1993-1994
A.52	American Biographical Institute Inc. Research Board of Advisers Letter of welcome on Cook's honorary appointment to the Board and certificates.	1994
A.53-A.58	PUBLIC AND SOCIAL OCCASIONS Includes orders of proceedings, guest lists, seating plans etc. 6 folders.	1975-1993
A.59-A.62	PHOTOGRAPHS	1930s, 1982, n.d.
A.59	3 school photographs including Cook	1930s
A.60	Photograph of Cook and his wife Isabell Found with University of Edinburgh papers at A.30.	n.d.
A.61	Photograph of Cook with Cavendish Cricket Team	1982
A.62	Photograph of presentation to Cook on unidentified occasion	n.d.

SECTION B	RESEARCH AND TEACHING, B.1-B.22	1973-2004, n.d.
	<p>A sequence of folders of notes and drafts and notebooks relating to research and/or teaching.</p> <p>Some of this material relates to periods Cook spent as Visiting Professor at the University of California, 1981-1982 and Visiting Fellow at Princeton, 1993. It is possible that other material relates to courses prepared for the International Centre of Theoretical Physics, Trieste, Italy.</p>	
B.1-B.3	<p>'Libration'</p> <p>Contents of folder so inscribed divided into three for ease of reference: manuscript notes, offprint, data.</p>	1973-1978
B.4	<p>'Theory of Lunar Libration'</p> <p>Notebook so titled with contents list and paginated sequence of notes 1-69, unpaginated notes on differential geometry.</p> <p>1 page of notes dated 14 August 1973.</p>	1973
B.5	<p>'Theory of the Internal Gravity Field'</p> <p>Notebook so titled.</p> <p>Loose papers enclosed including notes on headed notepaper of Hotel Colombia, Trieste.</p> <p>Latest bibliographical reference 1973.</p>	c.1973
B.6	<p>'Melting'</p> <p>Notebook so titled on first page and paginated 1-170.</p> <p>Latest bibliographical reference 1978.</p> <p>Loose papers enclosed.</p>	c.1978
B.7-B.11	<p>'Melting of Metallic Hydrogen'</p> <p>Contents of folder so inscribed divided into five for ease of reference: manuscript notes, drafts, calculations etc.</p>	1982

Research and teaching, B.1-B.22

Includes 'Trieste Talk / Melting of Metallic Hydrogen at Planetary Pressures' (B.8) and draft paper of the same title (B.9).

Latest date 31 May 1982 on a notice of a seminar given by colleague in 'IGPP [Institute of Geophysics and Planetary Physics] Conference Room'.

Some of this material at least would appear to relate to Cook's period as Visiting Professor and Green Scholar, University of California at Los Angeles, Berkeley and San Diego, 1981-1982.

B.12	<p>'Dynamics'</p> <p>Contents of folder so inscribed: manuscript notes on 'Implications of Chaos', typescript draft on 'Confronting Chaos', etc</p> <p>Relates to Cook's period as Visiting Fellow, Center of Theological Inquiry, Princeton, USA, 1993.</p>	[1993]
B.13	<p>Untitled notebook used for manuscript working</p> <p>1 loose sheet dated 8 January 2004.</p>	N.d., 2004
B.14	<p>'Molecules / Dirac Electron Theory'</p> <p>Notebook so titled on first page and paginated 1-89.</p> <p>Loose papers at front titled 'Born Oppenheimer Separation'.</p>	N.d.
B.15	<p>'Relativistic Treatment of Simple Molecules'</p> <p>Notebook so titled on first page.</p>	N.d.
B.16-B.22	<p>'Molecules'</p> <p>Contents of folder so inscribed divided into seven for ease of reference: manuscript notes for lecture course on molecular structure and spectra.</p>	N.d.

SECTION C	PUBLICATIONS, C.1-C.47	1948-2002
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C.1-C.9	BOUND VOLUMES OF COOK'S OFFPRINTS
C.10-C.40	DRAFTS
C.41-C.46	CORRESPONDENCE <i>RE</i> PUBLICATIONS
C.47	REVIEWS OF COOK'S PUBLICATIONS

C.1-C.9	BOUND VOLUMES OF COOK'S OFFPRINTS	1948-2001
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C.1	Volume 1 Earth Sciences 1948-1958
C.2	Volume 2 Earth and Planets 1959-1968
C.3	Volume 3 Earth and Planetary Sciences 1969-1989
C.4	Volume 4 Metrology 1953-1969
C.5	Volume 5 Astrophysics 1963-1989
C.6	Volume 6 Physics (including Metrology) 1970-1989
C.7	Volume 7 History and Miscellaneous 1963-1989
C.8	Volume 8 Memoirs 1950-1983

Includes loose item at front: offprint from Physics Bulletin, 23, 1972 including Cook's appreciation of H. Barrell, F.Inst.P.

Publications, C.1-C.47

C.9	Unnumbered bound volume, 1990-2001 Topics include history of science and biography. Loose items at front of volume.	
C.10-C.40	DRAFTS	1982-2001
C.10-C.25	'Ideas of Theoretical Physics' Contents of binder so labelled divided into sixteen for ease of reference: typescript drafts of 11 chapters with manuscript additions and corrections, manuscript draft of lectures on ideas of theoretical physics and duplicated typescript of the 1984 Ciaran Memorial Lecture 'The Discovery of the Rigid Body Dynamics'. The 'Ideas of Theoretical Physics' may have been intended as a publication based on earlier lectures represented by the manuscript draft.	1984, n.d.
C.26-C.32	'Molecules' Contents of box folder so labelled divided into seven for ease of reference: notebook and notes, drafts, offprints. Includes notes and drafts for chapters of ?unpublished book. Chapter titles include 'Born Oppenheimer Separation' and 'Symmetry'.	1982-1988
C.33-C.34	'Molecules' Contents of folder so inscribed divided into two for ease of reference: manuscript and typescript drafts titled 'Electron Pairs from a relativistic standpoint', offprints etc. At C.34 are manuscript notes headed 'Book on Molecules'.	1988-1993
C.35-C.37	'Gravitation' Correspondence and papers <i>re</i> revision of article on gravitation for editions of <i>Encyclopaedia Britannica</i> . 3 folders.	1988-2001

Publications, C.1-C.47

C.38	'Can there be a theoretical biology?'	1993, n.d.
	Typescript draft and manuscript notes for publication or lecture.	
	Includes article from <i>Physics World</i> by G. Parisi on 'Statistical physics and biology', September 1993.	
	This work relates to period as Visiting Fellow at Princeton. See also B.12, D.14.	
C.39-C.39A	'Simple Abstract Models for Autoimmune Response'	1992-1993
C.39	24pp typescript paper + figures, letter from <i>Journal of Theoretical Biology</i> re publication, 9 October 1993, and referee's report.	
C.39A	4pp typescript on 'Autoimmune models', correspondence, figures.	1992-1993
C.40	'Expert systems in University Education'	N.d.
	Typescript draft.	
C.41-C.46	CORRESPONDENCE RE PUBLICATIONS	1967-2002
	Principally Cambridge University Press.	
	Includes contracts and memoranda of agreement in respect of Cook's own publications.	
C.41	1967-1969	
C.42	1971-1982	
C.43	1987-1988	

Publications, C.1-C.47

C.44 1989

C.45 1993

C.46 2000-2002

C.47 REVIEWS OF COOK'S PUBLICATIONS 1994-1995

1 folder.

SECTION D	LECTURES, VISITS AND CONFERENCES, D.1-D.22	1976-2005
D.1	<p>International Summer College on Physics and Contemporary Needs, Nathiagali, Pakistan, 2-20 August 1976</p> <p>Photocopy of letter from Cook to his wife, 13 August, with account of visit.</p>	1976
D.2-D.3	<p>'The Achievements of Sir John Cockcroft', Cockcroft Memorial Lecture, Todmorden Town Hall, West Yorkshire, 8 December 1982</p> <p>Correspondence <i>re</i> arrangements, letters of thanks, typescript of Cook's lecture.</p> <p>2 folders.</p> <p>Cook was invited to give a lecture to mark the fiftieth anniversary of Cockcroft's 'involvement in the first mechanical splitting of the atom'. He also appeared as guest of honour and presented the prizes at Todmorden High School Speech Day.</p>	1982-1983
D.4-D.7	<p>Visit to Huazhong University of Science and Technology, Wuhan, Hubei, China, March-April 1984</p> <p>Formal invitation from University President, letter of appointment as Visiting Professor, itinerary, 'Notes on a visit to China, 16 March - 17 April 1984', outline of lectures, brochures in Chinese and English on two Chinese Observatories, invitation cards, photographs, etc.</p> <p>4 folders.</p> <p>Cook was invited to present lectures in the Department of Physics, Huazhong University, on 'Dirac equation in molecular physics', 'Inner planets' and 'Research activities at the Cavendish Laboratory'.</p> <p>Although all of the material was found together, some relates to Cook's first visit to China in November 1973 as part of a delgation of six Fellows of the Royal Society. This visit included Shanghai and Beijing.</p>	1983-1984, n.d.
D.8-D.12	<p>'Immune response to mutation of an antigen'</p> <p>Contents of folder divided into five for ease of reference: typescript draft of paper so titled, manuscript notes,</p>	1993, n.d.

Lectures, visits and conferences, D.1-D.22

transparencies, papers *re* Société Mathématique de France.

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| D.13 | <p>'Metrology and the structure of theoretical physics'</p> <p>Abstract of 'talk' with this title, manuscript notes and Cook's report on his 'Membership of the Center for Theological Inquiry, 1993 October 1 to December 28', Princeton, USA, 13 December 1993.</p> <p>See also B.12, C.38 and D.14.</p> | 1993 |
| D.14 | <p>'Can there be a theory of biology?'</p> <p>Typescript draft found with the preceding (D.13).</p> <p>See also C.38.</p> | [1993] |
| D.15 | <p>'Les Bases empiriques de la Théorie scientifique', Humphrey Davy Lecture, Académie des Sciences, Paris, France, 14 November 1994</p> <p>Typescript draft with manuscript corrections (in French), transparencies, letter <i>re</i> arrangements.</p> | 1994 |
| D.16 | <p>'B. Free Franklin: the Enlightenment and America', Royal Society Lunchtime Lecture, National Portrait Gallery, London, 23 October 2001</p> <p>Typescript draft, correspondence <i>re</i> arrangements etc.</p> | 2001 |
| D.17 | <p>'The Royal Society of London and the Improvement of Natural Knowledge', International meeting on 'Le accademie nazionali nel contesto culturale europeo', Rome, Italy, 12 March 2002</p> <p>Abstract of papers including Cook's on the Royal Society, and transparencies for Cook's paper</p> | 2002 |
| D.18-D.21 | <p>Visit and lectures, Italy, 2003</p> <p>Cook gave lectures in Padua and Venice.</p> | 2003, 2005 |

Lectures, visits and conferences, D.1-D.22

The Venice occasion was a meeting on 'L'esperanza delle accademie e la vita morale e civile dell'Europa', Istituto Veneto di Scienze, Lettere ed Arti, 27-28 November 2003.

D.18 'Padua Lecture Nov 2003, Venice Nov 2003, Accademia Lincei Lecture' 2003, 2005

Contents of envelope so inscribed

D.18 'Padova Lecture English Version'

Typescript draft so titled of lecture on Halley.

D.19 'One World or Many'

Typescript draft with manuscript additions and corrections.

Refers in opening paragraph to founding of Accademia dei Lincei four hundred years ago.

D.20 'Conclusions'

Typescript draft and proof copy of Cook's conclusions at the meeting in Venice about academies, and letter *re* proof.

D.21 Correspondence and papers *re* meeting in Venice. 2003

D.22 'Méthodes géométriques pour les dynamiques dans les travaux d'Isaac Newton et Henri Poincaré', no location N.d.

Typescript draft and transparencies.

SECTION E	HISTORY OF SCIENCE, E.1-E.140	1976-2005
	E.1-E.119	SCIENTIFIC BIOGRAPHY
	E.120-E.125	MISCELLANEOUS TOPICS
	E.126-E.140	NOTES AND RECORDS OF THE ROYAL SOCIETY
E.1-E.119	SCIENTIFIC BIOGRAPHY	1982-2003
	For offprint of Cook's Royal Society memoir of Sir Harold Jeffreys see C.9.	
	For lecture by Cooke on Benjamin Franklin see D.16.	
E.1-E.3	Louis Essen 1908-1997	1997-1999
	Cook wrote the Royal Society memoir of Essen: <i>Biog. Mems. Fell. R. Soc. Lond.</i> 44 (1998), 141-158.	
E.1	Offprint of Cook's memoir	1998
E.2	Correspondence with the Royal Society, Essen's family and colleagues <i>re</i> preparation of memoir	1997-1999
E.3	Background material including photocopies of obituaries, NPL [National Physical Laboratory] News etc.	
E.4-E.101	Edmond Halley 1656-1742	1982-2003
	Cook published a biography of Halley in 1998: <i>Edmond Halley: Charting the Heavens and the Seas</i> (Oxford: Clarendon Press). He also lectured and published a number of articles about aspects of Halley's life and career.	
	See also D.18.	

History of science, E.1-E.140

E.4-E.30	Correspondence	1982-2003
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A chronological sequence of Cook's research and publications correspondence.

Correspondents include scientific colleagues, historians, librarians, archivists and publishers.

E.4-E.6	1982
	3 folders.

E.7-E.9	1983
	3 folders.

At E.8 is a typescript note by Cook 'Search for documents relating to Edmond Halley in Austria and Italy', April.

E.10	1984
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E.11-E.12	1985
	2 folders.

E.13	1986-1987
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Includes 'piece' by Cook on Halley for Queen's College Oxford magazine.

E.14	1988-1989
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E.15	1990
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E.16	1991
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E.17	1992
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History of science, E.1-E.140

E.18	1993
E.19-E.20	1994 2 folders. Papers at E.20 were found together in Cook's untitled folder.
E.21-E.22	1995 2 folders.
E.23-E.25	1996 3 folders. At E.23 is memorandum of agreement between Cook and Oxford University Press in respect of the Halley biography.
E.26	1997 Includes letters of thanks from recipients of copies of the Halley biography.
E.27	1998-1999 Includes letters from readers of Cook's biography of Halley, reviews of the biography and formal invitation to Cook to accept appointment to the Halley lectureship, University of Oxford for 2000.
E.28	2000 Includes copy of review of Halley biography sent to Cook by the reviewer I.B. Cohen.
E.29	2001-2003

History of science, E.1-E.140

E.30	N.d. Includes publisher's readers' reports on Cook's biography of Halley.	
E.31-E.46	Research notes	N.d.
E.31-E.37	'Halley' Contents of ring binder so labelled with related notes separated by card dividers.	
E.31	'Admiralty Papers'	
E.32	'People'	
E.33	'Letters'	
E.34	'Wills and Property'	
E.35	'Chancery'	
E.36-E.37	Papers following 'Chancery' papers in the binder without separate divider 2 folders.	
E.38-E.41	'Halley' Contents of ring binder so labelled: alphabetical sequence of notes.	
E.38	'Arbuthnot' - 'Comets'	

History of science, E.1-E.140

E.39	'Conics' - 'Huyghens'	
E.40	'Julius Caesar' - 'Newton'	
E.41	'Oldenburg' - 'Pepys'	
E.42-E.44	'Halley' Contents of ring binder so labelled: alphabetical sequence of notes.	
E.42	'Phil Trans' - 'Publications'	
E.43	'Rigaud' - 'Southern Stars'	
E.44	'Street' - '3-voyages'	
E.45-E.46	Miscellaneous manuscript notes Includes notes headed 'Halley Books' at E.46.	
E.47-E.69	Drafts A chronological sequence of drafts and related material for a number of shorter publications and lectures by Cook on Halley. There are no drafts for Cook's 1998 biography of Halley.	1982-2003
E.47-E.54	'Halley - Istria' Contents of folder so inscribed divided into eight for ease of reference: includes photocopies of original documents, manuscript notes and typescript draft of 'Halley in Istria Letters and Documents, 1703'.	1982-1983, n.d.

History of science, E.1-E.140

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|-----------|--|---------------------|
| E.55-E.57 | <p>Manuscript and typescript drafts <i>re</i> Cook's paper Halley in Istria Letters and Documents, 1703'</p> <p>Contents of untitled folder divided into three for ease of reference.</p> | N.d. |
| E.58-E.62 | <p>'Halley Documents and Lectures'</p> <p>Contents of folder so inscribed divided into five for ease of reference: manuscript and typescript notes and drafts for lectures by Cook on Halley, transcripts and photocopies of original documents, etc.</p> <p>At E.58 are manuscript notes for talk by Cook on 'Halley - Some Puzzles' and at E.61 is typescript draft for lecture by Cook on 'Edmond Halley, Comets and Ideas of the Enlightenment' with manuscript inscription at head of first page 'For UCD, Jan 11'.</p> | 1989, 1996,
n.d. |
| E.63 | <p>'Halley the Londoner'</p> <p>2 typescript drafts so titled.</p> <p>A paper of this title by Cook was published in <i>Notes Rec. R. Soc. Lond.</i> 47 (2), 163-177 (1993).</p> | c.1993 |
| E.64 | <p>'Edmond Halley and John Flamsteed at the Royal Observatory'</p> <p>Typescript draft so titled, offprint, etc..</p> <p>This was Cook's contribution to <i>Flamsteed's Stars</i> edited by Frances Willmoth and published by Boydell & Brewer Ltd (1997).</p> | 1997 |
| E.65 | <p>'ESF Notes'</p> <p>Typescript notes and 2 transparencies for paper by Cook given at European Science Foundation workshop 'Network on Science and the Visual Image: 1500-1800'.</p> <p>Folder also includes list of participants at workshop.</p> | 1997 |

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E.66	'Halley - IUGG 99' Manuscript notes for conference paper by Cook.	1999
E.67	'Halley's World' Typescript draft and transparency for Cook's paper at Royal Astronomical Society meeting 'The 300th Anniversary of the First Magnetic Chart: Edmond Halley's Work in Geophysics and Navigation', 10 November Folder also includes programme and letter <i>re</i> celebrating Thomas Young's bicentenary.	2000
E.68	'Edmond Halley' Typescript draft of Cook's contribution to <i>Encyclopedia of Geomagnetism and Paleomagnetism</i> , letter from editor and review of Cook's article.	2003
E.69	'Edmond Halley, Comets and Ideas of the Enlightenment' Typescript draft.	N.d.
E.70-E.74	Offprints	1984-2001
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E.72	1993	
E.73	1996-1999	
E.74	2001	

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E.75-E.92	Background papers	1983-1987, n.d.
E.75-E.81	'Transcripts' Contents of folder so inscribed divided into seven for ease of reference: includes manuscript notes and correspondence.	1983-1987
E.82-E.85	'Graz / PRO' Contents of ring binder so labelled divided into four for ease of reference: principally photocopies etc. of original documents	N.d.
E.86	'Halley' Contents of folder so labelled: includes programme of conference on 'Newton and Halley', UCLA, USA, 11-14 August 1985 and notice of talk by Cook on 'Edmond Halley - polymath', at University of California, Berkeley, USA, 11 September 1985.	1985, 1987
E.87-E.92	Contents of untitled binder divided into six for ease of reference: photocopies etc of original documents	N.d.
E.93-E.101	Illustrative material Includes figures, photographs, transparencies, etc.	N.d.
E.93	'Original figures' Contents of folder so inscribed.	
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E.97-E.101	Miscellaneous 5 folders.	
E.102	Hendrik Christoffel Van De Hulst 1918-2000 Offprint only of Cook's memoir, <i>Biog. Mem. Fell. R. Soc. Lond.</i> 47 (2001), 465-479.	2001
E.103-E.113	Reginald Victor Jones 1911-1997 Cook wrote the Royal Society memoir of Jones, <i>Biog. Mem. Fell. R. Soc. Lond.</i> 45 (1999), 239-254.	1997-2000
E.103	Offprint of Cook's memoir	1999
E.104-E.108	Correspondence with Royal Society, colleagues, etc Includes recollections of Jones sent to Cook for information and comments on draft of memoir. 5 folders.	1997-2000
E.109	Notes and drafts etc.	
E.110-E.112	Background papers Includes obituaries and memoirs of Jones by others. 3 folders. At E.112 is typescript by Jones headed 'The writer of my Biographical Memoir for the Royal Society and others who may be interested'.	
E.113	Photograph of Jones	

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E.114-E.119	Shorter biographical accounts	1993-2003
	<p>Contents of folder divided into six for ease of reference: principally for the <i>New Dictionary of National Biography</i>.</p> <p>Includes Edmond Halley.</p>	
E.120-E.125	MISCELLANEOUS TOPICS	1976-2004
E.120	'Naval Radar'	1987-1988
	<p>Contents of folder so inscribed: correspondence and recollections of ASE [Admiralty Signals Establishment], Witley, Surrey.</p>	
E.121-E.123	<p>Contents of untitled folder divided into three for ease of reference: principally <i>re</i> Chapel of King Charles the Martyr, Tunbridge Wells and Royal Society Fellows.</p> <p>Includes lists of those contributing to fund raising campaigns, 1676-1684 and 1688-1696.</p>	N.d., 2003-2004
E.124-E.125	<p>Offprints, etc of papers by Cook</p> <p>2 folders.</p> <p>For Halley see E.70-E.74.</p>	1976-2003
E.126-E.140	NOTES AND RECORDS OF THE ROYAL SOCIETY OF LONDON	1992-2005
	<p>Cook was a regular contributor, member of the editorial board and then editor, 1996-2003.</p>	
E.126-E.135	<p>'Notes & Records Editorship'</p> <p>Contents of folder so inscribed: correspondence</p>	1992-2003, n.d.

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E.129	1998-1999	
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	3 folders.	
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E.136-E.140	Offprints of papers by Cook for <i>Notes and Records</i> For Halley offprints see E.70-E.74.	2000-2005
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